# APENDIX A DHS MONTHLY TREATMENT REPORT(S)

### CITY OF SAN BERNARDINO MUNICIPAL WATER DEPARTMENT

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Safety Program Manager

December 22, 2005

Ms. Yen Tran
Sanitary Engineer
State Department of Health Services
Drinking Water Field Operator Branch
464 W. 4th Street, Suite 437
San Bernardino, CA 92401

RE: NOVEMBER 2005 MONTHLY SUMMARY TREATMENT REPORTS FOR SYSTEM NO. 3610039, WATER SUPPLY PERMIT NO. 03-13-99P-002

Dear Ms. Tran:

Enclosed are the monthly summary reports for each Granular Activated Carbon and Packed Tower Aeration facility. The required information is provided in two separate report formats: Information on well production, plant influent and effluent water flow and amount of contaminant removed are covered in the November 2005 Operations Monthly Treatment Reports. Information on bacterial results and constituents of concern for each of the wells and treatment plants for the month of November 2005 is presented in the attached Water Quality Reports, Newmark OU/Towers/19th Street GAC.

It is my understanding the energy consumed for each is no longer of interest to DHS and is not required in the monthly reports.

Ms. Yen Tran Page 2 December 22, 2005

Please contact me at (909) 384-5107 if additional information or modifications to the formats of the reports are desired.

Sincerely yours,

W. William Bryden, P.E.

Director, Water Utility

WWB:tal
Attach.

cc: Kim Hoang, Ph.D. (w/attach)
 Stacey R. Aldstadt (w/attach)
 Robin Ohama (w/attach)
 Mike Lowe (w/attach)
 Matthew Litchfield (w/attach)
 Valerie Housel (w/attach)
 Pat Abeyta (w/attach)
 Lana Kennerly (w/attach)

## San Bernaruino Municipal Water Department

#### **Operations Monthly Treatment Report**

Newmark OU / Towers / 19th St South GAC / 19th St North GAC

Reporting I	Period: Nov 2005				A Complete Company
		EPA47th	Street Pl	ant	
Production	GAC Wells				
EPA 003	200.145 AF				
GAC Treatr	ment				
Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	1.295	757.677	1B	60.425	60.425
2A	1.191	722.434	2B	59.240	59.240
3A	1.322	748.903	3B	68.159	68.159
Totals	3.808 AF	2229.014 AF		187.824 AF	187.824 AF
	Vess	els			
TCE-In	0.9				
TCE-Out	0.0				
PCE-In	3.8		. 1		
PCE-Out	0.0				
Total	4.7 ug/L	lbs Removed	2.45		

DIOZNA NA PORODE NO ACCIONADO	West at the second state of the second state o	SAME AND THE OWN TO SAME A				
		EPA South Plant a	nd Wateri	man Towers		
		Tower Wells	٧	Vells	Towers	
		Waterman	7.870	TCE+PCE-In 5	9 TCE+PCE-Out	0.0
Production	GAC Wells	30th St.	7.165	TCE+PCE-In 5	9 TCE+PCE-Out	0.0
EPA 002	199,764	South Tower Total	15.035 A	\F		
EPA 004	206.605	Leroy	4.277	TCE+PCE-In 5	9 TCE+PCE-Out	0.0
EPA 005	205.333	31st St.	0.640	TCE+PCE-In 5	9 TCE+PCE-Out	0.0
Total	611.702 AF	North Tower Total	4.917 A	\F		
GAC Treatm						
Vessel	Monthly	Total Since	Vessel	Monthly	Total Since	
	Treated	Change-out	12	Treated	Change-out	
1A	77.465	437.697	1B	0.000	1015.341	
2A	64.672	400.037	2B	0.000	1012.581	
3A	76.910	427.631	3B	0.000	994.248	
4A	78.381	438.096	4B	0.000	1030.361	
5A	75.762	419.780	5B	0.000	989.723	
6A	71.081	248.544	6B	0.000	1033.084	
7A	77.964	414.464	7B	0.000	1046.111	
8A	92.527	483.848	8B	0.000	1198.688	
Totals	614.762 AF	3270.097 AF		0.000 AF	8320.137	AF
	Ves	sels			owers	
TCE-In	0.7		- 1		noved Waterman	0.13
TCE-Out	0.0				noved 30th St	0.11
PCE-In	2.3				noved Leroy	0.0
PCE-Out	0.0				noved 31st St	0.0
Total	3.0 ug/l	lbs Removed	5.01	Total pounds Rea	moved Tower	0.3

# San Bernar Ino Municipal Water Depa Iment Operations Monthly Treatment Report

Newmark OU / Towers / 19th St South GAC / 19th St North GAC

Reporting Period: Nov 2005

- topering .	eriou. Nov 2005					
		EPA North Plant a	nd Newma	irk Towers	<u> </u>	
		Tower Wells				
Production	GAC Wells	Newmark 1	0.145	TCE+PCE-In 0.5	TCE+PCE-Out	0.0
EPA 006	53.186	Newmark 4	0.246	TCE+PCE-In 0.5	TCE+PCE-Out	0,0
EPA 007	179.587	West Tower Total	0.391 AF			
NM3	118.740	Newmark 2	0.000	TCE+PCE-In 0.0	TCE+PCE-Out	0.0
Total	351.513 AF	East Tower Total	0.000 AF			
CAC Treets						
GAC Treatn	Monthly	Total Since		Monthly	Total Since	
Vessel	Treated	Change-out	Vessel	Treated	Change-out	
1A	34.038	89.683	1B	0.000	528.430	
2A	42.219	132.866	2B	0.000	506.262	
3A	41.742	116.933	3B	0.000	385.655	
4A	45.568	131.943	4B	0.000	483.411	
5A	46.125	127.215	5B	0.000	479.463	
6A	46.347	129.818	6B	0.000	537.707	
7A	51.318	121.956	7B	0.000	529.313	
Totals	307.357 AF	850.414 AF		0.000 AF	3450.241	AF
	Ves	sels		Tow		War same
TCE-In	0.5			#'s Removed	Newmark 1	0.00
TCE-Out	0.0			#'s Removed		0.00
PCE-In	2.8			#'s Removed	Newmark 2	0.00
PCE-Out	0.0					0.00
Total	3.3 ug/L	lbs Removed	2.76	Total pounds Remo	oved Tower	0.00

		19th Street	South P	lant	
Production 19th St 1 19th St 2 Mt Vernon Total	GAC Wells 131.024 0,266 AF 0.021 131.311 AF	•			
GAC Treatm Vessel	nent Monthly	Total Since	Vessel	Monthly	Total Since
i a	Treated	Change-out	725	Treated	Change-out
1A	31.586	625.129	1B	0.000	0.000
2A	38.893	662.759	2B	0.000	0.000
3A	37.504	701.061	3B	0.000	0.000
4A	38.076	658.091	4B	0.000	0.000
Totals	146.059 AF	2647.040 AF		0.000 AF	0.000 AF
	Vess	els			
TCE-In	0.5				
TCE-Out	0.0		1		
PCE-In	3.4				
PCE-Out	0.0				
Total	3.9 ug/L	lbs Removed	1.55		

### San Bernardino Municipal Water Department

#### **Operations Monthly Treatment Report**

Newmark OU / Towers / 19th St South GAC / 19th St North GAC

Reporting Period: Nov 2005

eriod: Nov 2005				
	EPA 19th Str	eet Nort	h Plant	and the second of the second o
GAC Wells			gara raje	
192.507 AF				
160.335 AF				
168.735 AF				
292.073 AF				
257.013 AF				
169.098 AF				
1239.761 <b>AF</b>	-			
nent				
Monthly	Total Since	Voccal	Monthly	Total Since
Treated	Change-out	A62261	Treated	Change-out
The state of the s	678.009	1B	-0.000	0.000
TEXT 1 ( TO THE PERSON NAMED IN THE PERSON NAM	655.467		0.000	0.000
104.318	798.343	3B	0.000	0.000
102.833	731.732	4B	0.000	0.000
112.663	815.692	5B	0.000	0.000
110.765	1052.030	6B	0.000	0.000
0.000	0.000	7B	0.000	0.000
A SAME ACTIVATE COME FOR CONTRACT OF STREET AND STREET	665.359	8B		0.000
106.820	720.057	9B	0.000	0.000
106,673	670.403	10B	- 0.000	0.000
98.925	772.151	11B	0.000	0.000
A PRODUCTION OF THE PROPERTY O	846.048		Control of the Contro	0.000
102.987	782.411	13B	0.000	0.000
ON COMPLETE STATE OF THE PARTY	0.000	14B	Mentory under 2 March 1980 Control of Artist Control of	0.000
			0.000 AF	0.000 AF
Control of the Contro	sels			
A PART CHARGO DE L'ORIGINA PROPRIATO DE L'ARTE				
0.0				
1. The read of the control of the co				
.0.0				
5.8 ug/L	. Ibs Removed	19.45		
	GAC Wells  192.507 AF 160.335 AF 168.735 AF 292.073 AF 257.013 AF 169.098 AF 1239.761 AF  Monthly Treated 90.893 103.657 104.318 102.833 112.663 110.765 0.000 81.660 106.820 106.673 98.925 111.717 102.987 0.000  1233.911 AF Ves: 1.0 0.0 4.8 0.0	## Company of the image is a second of the ima	GAC Wells  192 507 AF 160 335 AF 168 735 AF 292 073 AF 257 013 AF 169 098 AF 1239.761 AF  Nent  Monthly Treated Change-out 90 893 678.009 18 103.657 655.467 28 104.318 798.343 38 102.833 731.732 48 112.663 815.692 58 110.765 1052.030 68 0.000 0.000 78 81.660 665.359 88 106.820 720.057 98 106.673 670.403 108 98.925 772.151 11B 111.717 846.048 12B 102.987 782.411 13B 0.000 0.000 14B  1233.911 AF 9187.702 AF Vessels	## Company of the image is a second of the ima

		Summary	
Monthly		Year to Date	
Total AF Treated GAC	2493.721	Total AF Treated GAC	24139.821
Total AF Treated Towers	20.343	Total AF Treated Towers	5782.538
Combined AF Treated	2514,064	Combined AF Treated	29922.359
Total lbs Removed GAC	31.2	Total lbs Removed GAC	310.4
Total lbs Removed Towers	0.3	Total Ibs Removed Towers	70.4
Combined Pounds Removed	31.5	Combined Pounds Removed	380.8

#### San Bernardino Municipal Water Department Water Quality Monthly Report Newmark OU/Towers/19th St GAC/Muscoy OU Month of November 2005



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			THE PARTY	15.0		Week 1	- 11/03/05	Week 2	- 11/10/05	Week 3	- 11/16/05	Week 4	- 11/22/ps <sub>i</sub> -	Y OF 39	KI SRERN	ARDINO
Waterman GAC Treatment Plant	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	INTEN,	CIPATE W	ATETED E	PARMPME (mg/L)
EPA 002	11/16/2005	A	MARKET STATE		<1.0		100 C 9 A 1	91.524		100	N 1683 112 123	Free Co. Stay			SUPPLY ST	THE STATE OF
EPA 004	11/16/2005	A	DOD SEED		1.0						ITS BOOK		A HOUSE			
EPA 005	11/16/2005	A			<1.0			Apple Server		Service Service		7. 21				intrict tenti
Combined Influent	11/16/2005			S SHAROES IN				elna.		2.2	0.6	in the same				
LEAD VESSEL 1A	11/16/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	1.9	1.1	NM	NM	NM	NM	THE VESTILA
LEAD VESSEL 2A	11/16/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	1.1	0.9	NM	NM	NM	NM	Des III DE LEGIO
LEAD VESSEL 3A	11/16/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	1.8	1.1	NM	NM	NM	NM	DAMES IN
LEAD VESSEL 4A	11/16/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	2.4	1.1	NM	NM	NM	NM	
LEAD VESSEL 5A	11/16/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	2.1	1.1	NM	NM	NM	NM	COLUMN TEN
LEAD VESSEL 6A	11/16/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	3.0	1.5	NM	NM	NM	NM	III NO.
LEAD VESSEL 7A	11/16/2005	DAS SIEDIONIDINA	<1.1	<1.1	1.0	NM	NM	NM	NM	2.8	1.2	NM	NM	NM	NM	
LEAD VESSEL 8A	11/16/2005		<1.1	<1.1	3.5	NM	NM	NM	NM	2.6	1.2	NM	NM	NM	NM	
Combined Effluent	11/16/2005		<1.1	<1.1	49.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NM	NM	

				ROSER RESTR	minimum of the	Week 1	- 11/03/05	Week 2	- 11/10/05	Week 3 ·	11/16/05	Week 4 -	11/22/05	Wee	k 5	DEC TO
Newmark GAC Treatment Plant	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	NO <sub>3</sub> (mg/L)
EPA 006	11/16/2005	A			1.0					OZ II. CONTRACTOR					(10年)人(10年)	
EPA 007	11/16/2005	A		10 TO H 10 TO	2.5		I STATE OF THE PARTY OF THE PAR		<b>表别的</b>				医原 报 图 图			
Newmark Well 03	11/16/2005	A			4.0			South Miles			STATE OF THE			and the		STATE OF
Combined Influent	11/16/2005	remarkanish bering the			A Alivedia	Virginia vice 18		State 1985	2000	3.2	<0.5					
LEAD VESSEL 1A	11/16/2005	SOLOR WITH AND PROPERTY.	<1.1	<1.1	20.0	NM	NM	NM	NM	<0.5	<0.5	NM	NM	NM	NM	
LEAD VESSEL 2A	11/16/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	<0.5	<0.5	NM	NM	NM	NM	
LEAD VESSEL 3A	11/16/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	<0.5	<0.5	NM	NM	NM	NM	
LEAD VESSEL 4A	11/16/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	<0.5	<0.5	NM	NM	NM	NM	-8: [2:3]
LEAD VESSEL 5A	11/16/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	<0.5	<0.5	NM	NM	NM	NM	
LEAD VESSEL 6A	11/16/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	<0.5	<0.5	NM	NM	NM	NM	
LEAD VESSEL 7A	11/16/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	<0.5	<0.5	NM	NM	NM	NM	
Combined Effluent	11/16/2005		<1.1	<1.1	180.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NM	NM	

						Week 1 -	11/03/05	Week 2	- 11/10/05	Week 3 -	11/16/05	Week 4 -	11/22/05	Wee	ek 5	Clares - Street
17th Street GAC Treatment Plant	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCR (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	NO <sub>3</sub> (mg/L)
EPA 003	11/16/2005	A			2.0		NEWS TREES		ALGUE SUSTIN				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PPSC LAND		
Combined Influent	11/16/2005				100000000	A STATE		Description like	THE PERSON	3.9	0.9					
LEAD VESSEL 1B	11/16/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	<0.5	0.7	NM	NM	NM	NM	
LEAD VESSEL 2B	11/16/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	0.6	0.9	NM	NM	NM	NM	instruction.
LEAD VESSEL 3B	11/16/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	1.1	0.8	NM	NM	NM	NM	
Combined Effluent	11/16/2005		<1.1	<1.1	440.0	0.6	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NM	NM	

					and the second	Week 1	- 11/03/05	Week 2	- 11/10/05	Week 3 -	11/16/05	Week 4	11/22/05	Wee	k 5	Pursulation
19th Street SOUTH GAC Treatment Plant	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	NO <sub>3</sub> (mg/L)
19th Street Well 01	11/16/2005	A	Sar Saint		1.0			(E) (0) (S) (S)			E red 15					
19th Street Well 02	11/16/2005	A			1.0		E-5050		-1/11/9/20/02						100	
Combined Influent	11/16/2005		A STUDENT OF	10000	HE SOL	TO STATE OF	THE RESERVE	STRUCKS		3.5	<0.5				(30000000000000000000000000000000000000	CHIDDING C
LEAD VESSEL 1A	11/16/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	2.6	<0.5	NM	NM	NM	NM	0.02190.000
LEAD VESSEL 2A	11/16/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	3.0	0.7	NM	NM	NM	NM	
LEAD VESSEL 3A	11/16/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	3.3	0.7	NM	NM	NM	NM	
LEAD VESSEL 4A	11/16/2005	E SECTION STREET	<1.1	<1.1	<1.0	NM	NM	NM	NM	3.4	0.8	NM	NM	NM	NM	
Combined Effluent	11/16/2005		<1.1	<1.1	2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NM	NM	

#### San Bernardino Municipal Water Department Water Quality Monthly Report Newmark OU/Towers/19th St GAC/Muscoy OU Month of November 2005

DEC 1 9 2005

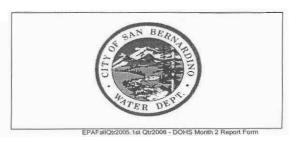
				AND SHARE		Week 1 -	11/03/05	Week 2	- 11/10/05	Week 3	- 11/16/05	Week 4	- 11/22/05	TY OF 18	WISBERN	ARDINO
19th Street NORTH GAC Treatment Plant	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	(ug/L)	CIPATE W	ATEREDI (ug/L)	PARTMEN (mg/L)
EPA 001	11/16/2005	A			2.0	3年3年4年				THE SECOND		The state of the s			E O	
EPA 108	11/16/2005	A			3.0	24 T- 3 T- X						The state of the s		Control of the second		
EPA 109	11/16/2005	A	<b>支票</b> 例例	<b>国内发展的</b>	8.5		<b>阿州州美国</b>				West State				Section 1994	
EPA 110	11/16/2005	A			1.0						A Commence of the Commence of					
EPA 111	11/16/2005	A			1.0										Sale Sales	
EPA 112	11/16/2005	A			5.5											
Combined Influent	11/16/2005		2500000000	4.1		2000				4.5	1.0	STATE OF THE PARTY	NAME OF STREET		NM	
LEAD VESSEL 1A	11/16/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	<0.5	<0.5	NM	NM	NM	NM	
LEAD VESSEL 2A	11/16/2005	Bridge Bridge Voter	<1.1	<1.1	<1.0	NM	NM	NM	NM	<0.5	<0.5	NM	NM	NM	NM	Service and Administration
LEAD VESSEL 3A	11/16/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	<0.5	<0.5	NM	NM	NM	-	
LEAD VESSEL 4A	11/16/2005		<1.1	<1.1	2.0	NM	NM	NM	NM	<0.5	<0.5	NM	- NM	NM	NM	
LEAD VESSEL 5A	11/16/2005	Assembly to the second	<1.1	<1.1	1.0	NM	NM	NM	NM	<0.5	<0.5	NM	NM	NM	NM	
LEAD VESSEL 6A	11/16/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	<0.5	<0.5	NM	NM	NM	NM	
LEAD VESSEL 8A	11/16/2005		<1.1	<1.1	3.0	NM	NM	NM	NM	<0.5	<0.5	NM	NM	NM	NM	
LEAD VESSEL 9A	11/16/2005		<1.1	<1.1	2.5	NM	NM	NM	NM	<0.5	<0.5	NM	NM	NM	NM	
LEAD VESSEL 10A	11/16/2005		<1.1	<1.1	1.0	NM	NM	NM	NM	<0.5	<0.5	NM	NM	NM	NM	
LEAD VESSEL 11A	11/16/2005		<1.1	<1.1	<1.0	NM	NM	NM	NM	<0.5	<0.5	NM	NM	NM	NM	
LEAD VESSEL 12A	11/16/2005	EARLS DE MARIE	<1.1	<1.1	<1.0	NM	NM	NM	NM	<0.5	<0.5	NM	NM	NM	NM	1
LEAD VESSEL 13A	11/16/2005		<1.1	<1.1	2.0	NM	NM	NM	NM	<0.5	<0.5	NM	NM	NM	NM	
Combined Effluent	11/16/2005	表示是EEEE	<1.1	<1.1	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NM	NM	

Waterman Stripping Towers	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	PCE	TCE	тв	FB
Waterman Combined Tower Influent	11/8/2005	Carlotte Block of the	150	100		5.1	0.8	<0.5	<0.5
Waterman N. Tower Effluent	11/8/2005	A	W E		<1.0	<0.5	<0.5	<0.5	<0.5
Waterman S. Tower Effluent	11/8/2005	A			<1.0	<0.5	<0.5	<0.5	<0.5

Newmark Stripping Towers	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	PCE	TCE	TB	FB
Newmark W. Tower Influent	11/8/2005	<b>建设等制度区上海</b>				<0.5	<0.5	<0.5	<0.5
Newmark W. Tower Effluent	11/8/2005	A	<b>美华的基本</b>		<1.0	<0.5	<0.5	<0.5	<0.5
Newmark E. Tower Influent	11/8/2005					NM	NM	NM	NM
Newmark E. Tower Effluent	11/8/2005	A		100	<1.0	NM	NM	NM	NM

NOTE: If any VOC contaminant is detected in the Towers' Effluent Samples, the laboratory report(s) will be attached for DHS review.

NM = Not Monitored





# EPA PRODUCTION WELL RUN TIME Nov-05

CITY OF SAN BERNARDING MUNICIPAL WATER DEPARTMENT

#### November Total 720 Hours Revised 12/12/05

Well	<b>Total Run Hours</b>				
EPA 001	692				
EPA 002	720				
EPA 003	706				
EPA 004	720				
EPA 005	720				
EPA 006	346				
EPA 007	702				
EPA 108	692				
EPA 109	693				
EPA 110	707				
EPA 111	405				
EPA 112	706				
NEWMARK 3	710				

MICHAEL LOWE Water Utility

Operations Superintendent

cc: Bill Bryden Matt Litchfield

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